06- DEPARTMENT OF ENVIRONMENTAL PROTECTION

096 BUREAU OF AIR QUALITY CONTROL

CHAPTER 129: SURFACE COATING FACILITIES

SUMMARY: This regulation establishes consistent requirements for testing, evaluating and limiting the emissions of volatile organic compounds (VOC) from selected surface coating operations. Surface coating facilities can select one of three compliance methods: low solvent content coating technology, daily-weighted averaging, and add-on air pollution control devices.

1. Scope/Applicability

A. Source applicability. This Chapter shall apply to all new and existing surface coating facilities under the following surface coating categories:

1. Surface coating of cans,
2. Surface coating of fabric,
3. Surface coating of vinyl,
4. Surface coating of metal furniture,
5. Surface coating of flatwood paneling, and
6. Surface coating of miscellaneous metal parts and products.

Note: See definition of coating in Section 2 of this Chapter.

B. Testing and recordkeeping applicability. The owner or operator of a surface coating unit, line or operation subject to this Chapter shall comply with the testing and compliance procedures in Section 6, Test Methods and Compliance Procedures, and the certification and recordkeeping requirements in Section 7, Initial Compliance Certification and Recordkeeping Procedures, both of this Chapter.

C. Emission limitations applicability. Any surface coating unit, line or operation under categories 1 through 5, as specified in Subsection 1(A) above and within this Chapter, whose maximum theoretical emissions of VOC from all coating units, lines or operations at the surface coating facility under the same surface coating category are ten (10) tons

VOC per year or greater, shall comply with the applicable emission limitations under Section 3 of this Chapter.

Any surface coating unit, line or operation under category 6 (miscellaneous metal parts and products), as specified in Subsection 1(A) above and within this Chapter, whose total actual emissions of VOC from all coating units, lines or operations at the surface coating facility under the same surface coating category are fifteen (15) pounds (lb) VOC per day or greater, shall comply with the applicable emission limitations under Section 3 of this Chapter unless:

1. The maximum theoretical emissions from all surface coating operations are limited by permit or order of the Department to 1,666 lb or less in any calendar month;

2. The owner or operator of the surface coating facility subject to this Chapter is and has at all times been in compliance with the maximum theoretical emission limitation since the issuance of the permit or order of the Department; and

3. The total actual emissions from the surface coating facility have not exceeded 1,666 lb in any calendar month since January 1990.

D. Changes in applicability. Any surface coating unit, line or operation that becomes or is currently subject to these provisions under Subsection 1(C) of this Chapter shall remain subject to the provisions, even if its emissions later decrease.

E. Applicable testing methods and compliance procedures. The testing methods and compliance procedures for determining compliance with this Chapter are described in Appendix A, which is incorporated into this Chapter by reference.

2. Definitions

A. General coating definitions

1. Coating. "Coating" means a material applied in a thin layer to a surface as a protective, decorative, or functional film. This term often refers to paints such as lacquers or enamels, but also refers to films applied to other materials such as varnishes, sealants, adhesives, inks, maskants, and temporary protective coatings. Such materials include, but are not limited to, paints, varnishes, sealants, adhesives, inks, maskants, and temporary protective coatings.

2. Coating unit. "Coating unit" means a series of one or more coating applicators and any associated drying area or oven wherein a coating is applied, dried, or

cured. A coating unit ends at the point where the coating is dried or cured, or prior to any subsequent application of a different coating. A surface coating operation does not require an oven or flashoff area in order to be included in this definition.

3. Control device. "Control device" means equipment used to reduce, by destruction or removal, the amount of air pollutant(s) in an air stream prior to discharge to the ambient air.

4. Day. "Day" means a period of 24 consecutive hours beginning at midnight, local time, or beginning at a time consistent with a surface coating facility's operating schedule.

5. Exempt compounds. See VOC definition in Chapter 100.

6. Flashoff area. "Flashoff area" means the space between the coating application area and the oven.

7. Maximum theoretical emissions. "Maximum theoretical emissions" means the quantity of VOC that theoretically could be emitted by a surface coating unit, line or operation without control devices based on the design capacity or maximum production capacity of the surface coating facility and 8,760 hours of operation per year. The design capacity or maximum production capacity includes use of coatings and inks with the highest VOC content used in practice by the surface coating facility for the two (2) years preceding the effective date of this Chapter.

8. Oven. "Oven" means a chamber which is used to bake, cure, polymerize or dry a coating.

9. Plastisol. "Plastisol" means a coating made of a mixture of finely divided resin and a plasticizer. Plastisol is applied as a thick gel that solidifies when heated.

10. Prime coat. "Prime coat" means the first of two (2) or more coatings applied to a surface.

11. Roller coating. "Roller coating" mean the application of a coating to a substrate by means of hard rubber or metal rolls.

12. Substrate. "Substrate" means the surface to which a coating is applied.

13. Web coating line. "Web coating line" means all of the coating applicator(s), drying area(s), or oven(s), located between an unwind station and a rewind station, that are used to apply coating onto a continuous strip of substrate (the web). A

web coating line need not have a drying oven in order to be included in this definition.

B. Surface coating of cans

1. Can. "Can" means any cylindrical, single-walled container, with or without a top, cover, spout, or handle, that is manufactured from metal sheets thinner than 29 gauge (0.0141 inch (in)).

2. Can coating unit. "Can coating unit" means a coating unit in which any coating is applied onto the surface of cans or can components.

3. End sealing compound coat. "End sealing compound coat" means a compound applied onto can ends that functions as a gasket when the end is assembled onto the can.

4. Exterior basecoat. "Exterior basecoat" means a coating applied to the exterior of a two-piece can body to provide protection to the metal, or to provide background for any lithographic or printing operation.

5. Interior body spray coat. "Interior body spray coat" means a coating applied to the interior of the can body to provide a protective film between the product and the can.

6. Over varnish. "Over varnish" means a coating applied directly over a design coating or directly over ink to reduce the coefficient of friction, to provide gloss, and to protect the finish against abrasion and corrosion.

7. Sheet basecoat. "Sheet basecoat" means a coating applied to metal in sheet form to serve as either the exterior or interior of two-piece or three-piece can bodies or can ends.

8. Side-seam spray coat. "Side-seam spray coat" means a coating applied to the seam of a three-piece can.

9. Three-piece can. "Three-piece can" means a can that is made by rolling a rectangular sheet of metal into a cylinder that is soldered, welded, or cemented at the seam with two ends attached.

10. Two-piece can. "Two-piece can" means a can whose body and one end are formed from a shallow cup and to which the other end is later attached.

11. Two-piece can exterior end coat. "Two-piece can exterior end coat" means a

coating applied by roller coating or spraying to the exterior end of a two-piece can to provide protection to the metal.

C. Surface coating of fabric

1. Fabric coating line. "Fabric coating line" means a web coating line where coating is applied to fabric. A fabric printing line is not considered a fabric coating line.

2. Fabric coating unit. "Fabric coating unit" means a coating application station and its associated flashoff area, drying area, or oven wherein coating is applied and dried or cured in a fabric coating line. A fabric coating line may include more than one fabric coating unit.

D. Surface coating of vinyl.

Vinyl coating line. "Vinyl coating line" means a web coating line where a decorative, functional, or protective coating is applied to a continuous web coating line of vinyl or vinyl-coated fabric. Lines used for coating or printing on vinyl and coating or printing on urethane are considered vinyl coating lines.

E. Surface coating of metal furniture

1. Metal furniture. "Metal furniture" means any furniture piece made of metal, or any metal part that will be assembled with other metal, wood, fabric, plastic or glass parts to form a furniture piece including, but not limited to, tables, chairs, waste baskets, beds, desks, lockers, benches, shelving, file cabinets and room dividers. This definition shall not apply to the coating of miscellaneous metal parts and products as defined in Subsection 2(F)(5) of this Chapter.

2. Metal furniture coating unit. "Metal furniture coating unit" means a coating unit in which a protective, decorative, or functional coating is applied onto the surface of metal furniture.

F. Surface coating of miscellaneous metal parts and products

1. Air-dried coating. "Air-dried coating" means a coating that is dried by the use of air or forced warm air at temperatures up to 90 degrees Celsius (C) (194 degrees Fahrenheit (F)).

2. Clear coating. "Clear coating" means a coating that (1) either lacks color and opacity or is transparent, and (2) uses the surface to which it is applied as a reflective base or undertone color.

3. Drum. "Drum" means any cylindrical metal shipping container of thirteen (13)- to 110-gallon capacity.

4. Extreme performance coating. "Extreme performance coating" means a coating intended for exposure to extreme environmental conditions, including but not limited to, the outdoors, temperatures above 95 degrees C or 203 degrees F, detergents, abrasive and scouring agents, solvents, and corrosive atmospheres.

5. Miscellaneous metal parts and products. "Miscellaneous metal parts and products" means any metal part or metal product, even if attached to or combined with a nonmetal part or product. Miscellaneous metal parts and products include, but are not limited to, the application of underbody anti chip materials (e.g. underbody plastisol) and surface coating operations other than prime coat, primer surface, topcoat and final repair operations at automobile and light-duty truck assembly plants, as well as including the following Industrial Classification Codes: Major Group 33 (primary metal industries), Major Group 34 (fabricated metal products), Major Group 35 (non electric machinery), Major Group 36 (electrical machinery), Major Group 37 (transportation equipment), Major Group 38 (miscellaneous instruments), and Major Group 39 (miscellaneous manufacturing industries).

6. Miscellaneous metal parts and products coating unit. "Miscellaneous metal parts and products coating unit" means a coating unit in which a coating is applied to any miscellaneous metal parts and products.

7. Pail. "Pail" means any cylindrical metal shipping container of one (1) to twelve (12) gallon capacity and constructed of 29 gauge and heavier metal.

8. Refinishing. "Refinishing" mean the repainting of used equipment.

G. Surface coating of flatwood paneling

1. Class I (or Class II) hardboard paneling finish. "Class I (or Class II) hardboard paneling finish" means finishes that meet the specifications of Voluntary Product Standard PS-59-73 as approved by the American National Standards Institute.

2. Flatwood paneling coating line. "Flatwood paneling coating line" means a coating line used to apply and dry or cure coatings applied to one of the following flatwood paneling categories: printed interior panels made of hardwood plywood and thin particleboard (i.e., less than or equal to 0.64 centimeter (cm) (0.25 in) thick; natural finish hardwood plywood panels; and Class II hardboard paneling finish.

Note: Flatwood paneling coating line does not include Class I hardwood panels, particle board used in furniture, insulation board, exterior siding, tileboard, and soft plywood coating lines.

3. Hardboard. "Hardboard" means a panel manufactured primarily from wood fibers that are consolidated under heat and pressure in a hot press.

4. Hardwood plywood. "Hardwood plywood" means plywood whose surface layer is a veneer of hardwood.

5. Natural finish hardwood plywood panels. "Natural finish hardwood plywood panels" means panels whose original grain pattern is enhanced by essentially transparent finishes frequently supplemented by fillers and toners.

6. Printed interior panels. "Printed interior panels" means panels whose grain or natural surface is obscured by fillers and basecoat upon which a simulated grain or decorative pattern is printed.

7. Thin particleboard. "Thin particleboard" means a manufactured board that is 0.64 cm (0.25 in) or less in thickness made of individual wood particles that have been coated with a binder and formed into flat sheets by pressure.

8. Tileboard. "Tileboard" means paneling that has a colored, waterproof surface coating.

3. Emission Limitations.

The owner or operator of a surface coating unit, line or operation subject to this Chapter shall comply with the applicable emission limitations in Subsections 3(A) through 3(F) of this Chapter below, by the use of Low Solvent Content Coating Technology, Daily-Weighted Averaging, or Add-On Air Pollution Control Devices, as specified in Section 5 of this Chapter. Emission limitations on VOC content for all surface coating categories, except flatwood paneling, are expressed in units of mass of VOC in kilograms (kg) or lb per volume of coating in liters (l) or gallons (gal), excluding water and exempt compounds, as applied. Emission limitations on VOC content for flatwood paneling are expressed in units of mass of VOC (kg or lb) per area of surface to which the coating is applied (100 square meters (m^2) or 1,000 square feet (ft^2)).

A. Emission limitations for surface coating of cans. This subsection applies to any can coating unit subject to emission limitations as specified in Sections 1 and 2 of this Chapter, and used to apply the following coatings: sheet basecoat, exterior basecoat, over varnish, interior body spray coat, side-seam-spray coat, two-piece can exterior end coat

and end sealing compound coat. The owner or operator of a can coating unit subject to this subsection shall not cause or allow the release of VOC that exceeds the following emission limitations:

Category	kg/l	lb/gal
1. Sheet basecoat	0.34	2.8
2. Exterior basecoat	0.34	2.8
3. Over varnish	0.34	2.8
4. Interior body spray coat	0.51	4.2
5. Side-seam spray coat	0.66	5.5
6. Two piece can exterior end coat	0.51	4.2
7. End sealing compound coat	0.44	3.7

B. Emission limitations for surface coating of fabric. This subsection applies to any fabric coating unit or line subject to emission limitations as specified in Sections 1 and 2 of this Chapter. The owner or operator of a fabric coating unit or line subject to this subsection shall not cause or allow the release of VOC that exceeds the following emission limitation:

0.35 kg/l (2.9 lb/gal)

C. Emission limitations for surface coating of vinyl. This subsection applies to any vinyl coating line subject to emission limitations as specified in Sections 1 and 2 of this Chapter. This subsection does not apply to the application of vinyl plastisol to fabric to form the substrate that is subsequently coated. The owner or operator of a vinyl coating line subject to this subsection shall not cause or allow the release of VOC that exceeds the following emission limitation:

0.45 kg/l (3.8 lb/gal)

D. Emission limitations for surface coating of metal furniture. This subsection applies to any metal furniture coating unit subject to emission limitations as specified in Sections 1 and 2 of this Chapter. The owner or operator of a metal furniture coating unit subject to this subsection shall not cause or allow the release of VOC that exceeds the following emission limitation:

0.36 kg/l (3.0 lb/gal)

E. Emission limitations for surface coating of flatwood paneling. This subsection applies to any flatwood paneling coating line subject to emission limitations as specified in Sections 1 and 2 of this Chapter. The owner or operator of a flatwood paneling coating line subject to this subsection shall not cause or allow the release of VOC that exceeds the following emission limitations:

Category	kg/100 m^2	lb/1,000 ft^2
1. Printed interior panels	2.9	6.0
2. Natural finish hardwood plywood panels	5.8	12.0
3. Class II hardboard paneling finish	4.8	10.0

F. Emission limitations for surface coating of miscellaneous metal parts and products. This subsection applies to any miscellaneous metal parts and products coating unit subject to emission limitations as specified in Sections 1 and 2 of this Chapter. The owner or operator of a miscellaneous metal parts and products coating unit subject to this subsection shall not cause or allow the release of VOC that exceeds the following emission limitations:

Category	kg/l	lb/gal
1. Clear coating	0.52	4.3
2. Steel pail and drum interior	0.52	4.3
3. Air-dried coating	0.42	3.5
4. Extreme performance coating	0.42	3.5
5. All other coatings	0.36	3.0

If more than one emission limitation applies to a specific coating, then the least stringent emission limitation shall apply. This subsection does not apply to the coating of metal cans or to the coating of metal furniture which are subject to Subsections 3(A) and 3(E) of this Chapter, respectively. This subsection also does not apply to the following:

exterior of completely assembled aircraft,
exterior of major aircraft subassemblies,

automobile, light-duty truck, and heavy duty truck refinishing,
exterior of completely assembled marine vessels, and
exterior of major marine vessel subassemblies.

4. Handling, Storage and Disposal of Materials Containing VOC.

This section applies to any surface coating facility subject to this Chapter.

A. Vapor-tight containers shall be used for the storage of spent or fresh VOC and for the storage or disposal of cloth or paper impregnated with VOC that are used for surface preparation, clean up or coating removal.

B. The use of VOC is prohibited for the cleanup of spray equipment unless equipment is used to collect the cleaning compounds and to minimize their evaporation to the atmosphere.

5. Compliance Methods.

The owner or operator of a surface coating unit, line or operation subject to this Chapter shall choose one of the three compliance methods below in order to comply with the applicable emission limitations contained in Section 3 of this Chapter.

A. Low solvent content coating technology. The owner or operator of a coating unit subject to this Chapter that chooses to use a low solvent content coating shall not cause or allow application of any coating on that coating unit with VOC content that exceeds the applicable emission limitations in Section 3 of this Chapter.

B. Daily-weighted average limitation. The owner or operator of a coating unit under categories 1 through 4 and 6, as specified in Subsection 1(A) of this Chapter, that chooses to obtain compliance with the applicable emission limitations in Section 3 of this Chapter by the daily-weighted average limitation shall not apply during any day, coatings on that coating unit whose daily-weighted average VOC content exceeds the applicable emission limitations in Subsections 3(A) through 3(D) and 3(F) of this Chapter, as calculated in Appendix A, Procedure C.

C. Add-on air pollution control devices. The owner or operator of a coating unit that chooses to obtain compliance with the applicable emission limitations in Section 3 of this Chapter by an add-on air pollution control device shall install and operate a capture system and control device and demonstrate a daily overall emission reduction efficiency which is the lesser of the value calculated according to the applicable procedure in Appendix A or 95%.

1. The capture system and control device shall be operated at all times that the coating unit is in operation. The owner or operator shall demonstrate compliance with the applicable emission limitations in Section 3 of this Chapter through the applicable test methods for coating analysis, capture system, control device and capture efficiency using the procedures in Appendix A.

2. The control device shall be equipped with the applicable monitoring equipment as specified in Appendix A, which shall be installed, calibrated, operated and maintained according to the manufacturer's specifications at all times.

6. Test Methods and Compliance Procedures.

The owner or operator of any surface coating unit, line or operation subject to this Chapter shall collect and record the applicable information, perform compliance testing and demonstrate compliance by using the methods and procedures described in this Chapter, Appendix A, Procedures A through I, and submit a report to the Department of the results as stipulated in Section 8 of this Chapter. At least a thirty (30)-day advance notification to the Department shall precede all tests.

The owner or operator of a surface coating unit, line or operation subject to this Chapter shall perform additional testing and submit a report within ninety (90) days of receipt of notice from the Department if equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that the surface coating facility may be operating out of compliance with the emission limitations.

7. Initial Compliance Certification and Recordkeeping Procedures.

Each owner or operator of a surface coating facility subject to this Chapter shall establish and maintain all records necessary for determining compliance with the emission limitations in Section 3 of this Chapter for a period of six (6) years. The owner or operator of a surface coating facility subject to this Chapter shall further make such records and reports available for inspection during normal business hours and shall provide copies to the Department or the Environmental Protection Agency upon request.

A. Initial compliance certification. The owner or operator of each surface coating facility subject to this Chapter shall submit an initial certification report by January 1, 1995. The owner or operator of a surface coating facility subject to this Chapter shall submit to the Department, certification records covering the relevant coating unit, line or operation, and method of compliance upon startup of any new coating unit, line or operation or upon changing the method of compliance for an existing coating unit, line or operation.

1. Coating units, lines or operations exempt from emission limitations.

Certification records required for coating units, lines or operations which are exempt from the emission limitations in Section 3 of this Chapter shall include a certification to the Department that the surface coating unit, line or operation is exempt, and provide the following:

a. Name and location of surface coating facility;

b. Name, address and telephone number of person responsible for the surface coating facility;

c. A declaration that the surface coating unit, line or operation is exempt, because combined VOC emissions from all coating units, lines and operations under the same surface coating category at the same surface coating facility are below the emissions threshold under Subsection 1(C) of this Chapter. The following equations shall be used to calculate maximum theoretical emissions of VOC per calendar year before the application of capture systems and control devices for each affected coating unit, line or operation at the surface coating facility:

$$Ep = AxB$$

where,

"Ep" means the maximum theoretical emissions of VOC from one coating unit in pounds per year (lb/yr)

"A" means the weight of VOC per volume of the coating with the highest VOC content, as applied, each year on the coating unit in pounds of VOC per gallon of coating (lb/gal)

"B" means the total volume of all coating that can be potentially applied each year on the coating unit in gallons per year (gal/yr). The instrument or method by which the owner or operator accurately measured or calculated the volume of coating applied and the amount that can potentially be applied each year shall be described in the certification to the Department; and

d. For coating units under the category of miscellaneous metal parts and products, except for those coating units which meet each of the criteria listed in Subsections 1(C)(1) through 1(C)(3) of this Chapter, calculations of the total VOC emissions for a day that is representative of current

maximum production levels from all miscellaneous metal parts and products surface coating units at the surface coating facility. The following equation shall be used to calculate total VOC emissions for that day:

$$T = \sum_{i=1}^{n} A_i B_i$$

where,

"T" means the total VOC emissions from coating units at the surface coating facility before the application of capture systems and control devices in units of kg/day (lb/day)

"n" means the number of different coatings applied on each coating unit at the surface coating facility

"i" the subscript denoting an individual coating

"A_i" means the mass of VOC per volume of coating (i), excluding water and exempt compounds, as applied, used at the surface coating facility in units of kilograms of VOC per liter of coating (kg/l) or pounds of VOC per gallon of coating (lb/gal)

"B_i" means the volume of coating (i), excluding water and exempt compounds, as applied, used at the surface coating facility in units of liter per day (l/day) or gallons per day (gal/day). The instrument or method used by the owner or operator of the surface coating facility to accurately measure or calculate the volume of each coating, as applied, shall be described in the certification to the Department.

2. Coating units, lines or operations using the Low Solvent Content Coating Technology Compliance Method.

Initial certification records required for coating units, lines or operations using the low solvent content coating technology compliance method shall include:

a. Name and location of surface coating facility;

b. Name, address and telephone number of the person responsible for the

surface coating facility;

c. Identification of each coating used on each identified coating unit, line or operation subject to this Chapter;

d. The mass of VOC per volume of each coating, excluding water and exempt compounds, as applied, used each day on each coating unit, line or operation, or in the case of coating of flatwood paneling, the mass of VOC per surface area to which the product is applied in kg of VOC/100 m^2 (lb VOC/1000 ft^2) and the surface area coated each day of each type of flatwood paneling; and

e. The time at which the surface coating facility's "day" begins if a time other than midnight, local time, is used to define a "day."

3. Coating Units, Lines or Operations Using the Daily-Weighted Averaging Compliance Method.

Certification records required for coating units, lines or operations using the daily-weighted averaging compliance method shall include:

a. Name and location of the surface coating facility;

b. Name, address and telephone number of the person responsible for the surface coating facility;

c. Identification of each coating used on each identified coating unit, line or operation subject to this Chapter;

d. Name and identification of each coating unit, line or operation that will comply by means of daily-weighted averaging;

e. The instrument or method by which the owner or operator of the surface coating facility will accurately measure or calculate the volume of each coating, excluding water and exempt compounds, as applied, used each day on each coating unit, line or operation;

f. The method by which daily records will be created and maintained as defined in this section;

g. The calculation of the daily-weighted average, using Procedure C described in Appendix A of this Chapter; and

h. The time at which the surface coating facility's "day" begins if a time other than midnight, local time, is used to define a "day."

4. Coating Units, Lines or Operations Using the Add-On Air Pollution Control Device Compliance Method.

Initial certification records required for coating units, lines or operations using the add-on air pollution control device compliance method shall include the results of all tests and calculations necessary to demonstrate compliance with this Chapter using procedures A through E, as described in Appendix A of this Chapter and shall include:

a. Name and location of the surface coating facility;

b. Name, address and telephone number of the person responsible for the surface coating facility;

c. Identification of each coating used on each identified coating unit, line or operation subject to this Chapter;

d. The mass of VOC per volume of each coating, excluding water and exempt compounds, as applied, used each day on each coating unit, line or operation, or in the case of coating of flatwood paneling, the mass of VOC per surface area to which the product is applied in kilograms of VOC per 100 square meters (kg/100 m^2) or pounds of VOC per 1000 square feet (lb/1000 ft^2) and the surface area coated each day for each type of flatwood paneling;

e. The maximum VOC content (mass of VOC per coating unit volume of coating solids, as applied), or the daily-weighted average VOC content (mass of VOC per coating unit volume of coating solids, as applied) of the coatings used each day on each coating unit, line or operation; and

f. The overall emission reduction efficiency for each day for each coating unit, line or operation required by Subsection 5(C) of this Chapter and determined using Procedure E in Appendix A attached to this Chapter.

B. Recordkeeping. The owner or operator of each surface coating facility subject to this Chapter shall begin to maintain the records required herein on the effective date of this Chapter.

1. Coating units, lines or operations exempt from emission limitations.

Annual records shall be maintained on premises to document the name and identification of each coating and the mass of VOC per volume of each coating, excluding water and exempt compounds, as applied, used on each coating unit, line or operation, and the total emissions at the surface coating facility.

Miscellaneous metal parts and products surface coating facilities that do not meet each of the criteria listed in Subsections 1(C)(1) through 1(C)(3) of this Chapter shall maintain daily records on the premises to document the name and identification of each coating and the mass of VOC per volume of each coating, excluding water and exempt compounds, as applied, used each day on each coating unit, line or operation, and the total daily VOC emissions at the surface coating facility, as calculated using the equation in Subsection 7(A)(1)(d) of this Chapter.

Miscellaneous metal parts and products surface coating facilities that meet each of the criteria listed in Subsections 1(C)(1) through 1(C)(3) of this Chapter shall maintain monthly records on the premises to document the name and identification of each coating and the mass of VOC per volume of each coating, excluding water and exempt compounds, as applied, used each month on each coating unit, line or operation, and the total emissions at the surface coating facility each month.

2. Coating units, lines or operations using the Low Solvent Content Coating Technology Compliance Method.

Except in the case where a coating unit, line or operation certifies under Section 8 of this Chapter that all of the coatings used at the surface coating facility use low solvent content coating technology, daily records shall be maintained on premises to document the name and identification of each coating, and the mass of VOC per volume of each coating, excluding water and exempt compounds, as applied, used each day on each coating unit, line or operation. For surface coating facilities, which certify under Section 8 of this Chapter that all of the coatings used at the surface coating facility use low solvent content coating technology, monthly records shall be maintained on the premises to document the name and identification of each coating and the mass of VOC per volume of each coating, excluding water and exempt compounds, as applied, used each month on each coating unit, line or operation.

NOTE: In the case of surface coating of flatwood paneling, the mass of VOC per area of surface coated for each coating each day and each type of product shall be recorded.

3. Coating units, lines or operations using the Daily-Weighted Averaging

Compliance Method.

Daily records shall be maintained on premises to document the name and identification of each coating and the mass of VOC per volume and the volume of each coating, excluding water and exempt compounds, as applied, on each coating unit, line or operation, and

Daily records shall be maintained on premises to document the daily-weighted average VOC content of all coatings, as applied, on each coating unit, line or operation calculated according to Procedure C in Appendix A of this Chapter.

4. Coating units, lines or operations using the Add-On Air Pollution Control Device Compliance Method.

Daily records shall be maintained on premises to document the following data:

a. The actual overall emission reduction efficiency achieved for each day for each coating unit, line or operation as determined using Procedure E in Appendix A;

b. Control device monitoring data as specified in Appendix A for Procedures H and I;

c. A log of operating time for the capture system, control device and monitoring equipment and associated coating unit, line or operation;

d. A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of outages;

e. For thermal incinerators, all continuous three (3)-hour periods of operation in which the average combustion temperature was more that 28 degrees C (50 degrees F) below the average combustion temperature during the most recent performance test that demonstrated that the surface coating unit, line or operation was in compliance;

f. For catalytic incinerators, all continuous three (3)-hour periods of operation in which the average temperature of the process vent stream immediately before the catalyst bed is more than 28 degrees C (50 degrees F) below the average temperature of the process vent stream immediately before the catalyst bed during the most recent performance test that demonstrated that the surface coating unit, line or operation was in

compliance; and

g. For carbon adsorbers, all continuous three (3)-hour periods of operation during which the average VOC concentration or the reading of organics in the exhaust gases is more than twenty (20)% greater than the average exhaust gas concentration or reading measured by the organics monitoring device during the most recent determination of the recovery efficiency of the carbon adsorber that demonstrated that the surface coating unit, line or operation was in compliance.

8. Reporting.

The owner or operator of any surface coating unit, line or operation subject to this Chapter shall provide to the Department the following:

A. Initial compliance certification. The owner or operator of each surface coating unit, line or operation subject to this Chapter shall provide to the Department, an initial compliance certification by January 1, 1995, or upon startup of a new coating unit, line or operation, or upon changing the method of compliance for an existing subject coating unit, line or operation.

B. Reports of excess emissions. Any owner or operator of a surface coating unit, line or operation that emits VOC in excess of the emission limitations in Section 3 of this Chapter shall notify the Department in writing within thirty (30) calendar days of the following:

1. For surface coating units, lines or operations exempt from the emission limitations in Section 3 of this Chapter, any evidence showing that combined VOC emissions exceed the applicability threshold in Subsection 1(C) of this Chapter; or

2. For surface coating units, lines or operations subject to the emission limitations in Section 3 of this Chapter, any evidence showing excess emissions, the use of any coatings that do not use low solvent content coating technology, non-compliance with the daily-weighted average limitations, or malfunctions of the control device(s).

9. Compliance Schedule.

The owner or operator of a surface coating unit, line or operation subject to this Chapter shall achieve final compliance with this Chapter on or before May 31, 1995.

BASIS STATEMENT : In the State of Maine, nine counties are classified as nonattainment for the federal ozone air quality standard. Ground-level ozone formation is caused in part by surface coating operations that emit volatile organic compounds (VOC).

This regulation of surface coating facilities restricts the VOC emissions from selected surface coating operations. Under Section 184 of the Clean Air Act Amendments of 1990, the State of Maine must submit plans to control VOC from all sources covered by a Control Technique Guideline (CTG) issued before November 15, 1990.

In addition to the Basis Statement above, the Department has filed with the Secretary of State its response to comments received during the comment period.

Authority: 38 MRSA Section 585-A

Effective Date: February 10, 1993